

4/9/2014

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POST FOCUS EXPOSURE REPORT**This updated assessment is based on new NPDES number () for the****Chemical ID: P-13-0930****Reviewer: Kwon/SD****Results Table: Dose, Concentration, and Days Exceeded Results Summary**

Exposure Scenario ¹			Water				Landfill	Stack Air		Fugitive Air	
Drinking Water			Fish Ingestion								
ADR		LADD	ADR	LADD	7Q10 ⁴ CC = 6	PDM Days Exceeded	LADD	ADR	LADD	ADR	LADD
Release activity(ies) ² ; exposure calculation(s) ³	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day
MFG () Max ADR: max acute eco	4.92E-05	---	1.06E-04	---	9.20E-01	---	---	---	---	---	---
MFG () PDM1	---	---	---	---	9.20E-01	0	---	---	---	---	---
MFG () Max LADD	---	1.63E-06	---	1.86E-06	---	---	---	---	---	---	---
MFG () Max ADR: max acute eco	6.44E-05	---	1.90E-04	---	1.22	---	---	---	---	---	---
MFG () PDM1	---	---	---	---	1.22	1	---	---	---	---	---
MFG () Max LADD	---	2.94E-06	---	3.35E-06	---	---	---	---	---	---	---
USE: Max ADR: max acute eco	1.88E-05	---	3.95E-05	---	2.70E-01	---	---	---	---	---	---
USE: PDM1	---	---	---	---	2.70E-01	0	---	---	---	---	---
USE: Max LADD	---	4.86E-07	---	5.54E-07	---	---	---	---	---	---	---

1 Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.

2 Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.

3 Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario.

CC is the aquatic concentration of concern.

4 This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

Remarks:

Results Table: Exposure Based (XB)/Persistent (P2B2) Criteria

Parameter	Exp Based	Persistent	Exceedance Value
Drinking (Surface) Water Dose (mg/kg/day)	No	NA	
Fish Ingestion Dose (mg/kg/day)	No	NA	
Inhalation Dose (mg/kg/day)	No	NA	
Groundwater Dose (mg/kg/day)	No	NA	
Surface Water Release After Treatment (kg/yr)	■	NA	■
Total Release After Treatment (kg/yr)	■	NA	■
Consumer Use?	No		

Fate test recommendations?: (default is NA))

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: ■

Release Activity: MG (■) Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	■ (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	■	0.00/0.00	N/A	N/A
Per Site Release:	■ (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1 RELEASE ACTIVITY: MG [REDACTED] Max ADR

FACILITY NAME: ALBEMARLE CORP/ORANGEBURG

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED] FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED] EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	[REDACTED]	[REDACTED]	[REDACTED]	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	469.68	176.11	112.57	92.39	NA
CONCENTRATION (µg/L)	0.22	0.59	0.92	1.12	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	1.63E-06 mg/kg/day		1.86E-06 mg/kg/day	
LADC _{pot}	8.37E-05 mg/L		2.23E-02 mg/kg	
Acute				
ADR _{pot}	4.92E-05 mg/kg/day		1.06E-04	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: ■

Release Activity: MG (■) PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

■	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

■	0.00/0.00	N/A	N/A
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Per Site Release:

■	N/A/0.00	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2

RELEASE ACTIVITY: MG () PDM1

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING WATER NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: ()

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	()	()	()	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	469.68	176.11	112.57	92.39	NA
CONCENTRATION ($\mu\text{g/L}$)	0.22	0.59	0.92	1.12	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	1.63E-06 mg/kg/day		1.86E-06 mg/kg/day	
LADC _{pot}	8.37E-05 mg/L		2.23E-02 mg/kg	
Acute				
ADR _{pot}	4.92E-05 mg/kg/day		1.06E-04	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2

RELEASE ACTIVITY: MG () PDM1

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING STREAM NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: ()

GAGING STATION ID: 02173500

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON
REACH: 1PERIOD OF RECORD: 01/01/66 -
09/29/89NUMBER OF
OBSERVATIONS: 8674.00

50 %ile FLOW (MLD): 1643.70

10 %ile FLOW (MLD): 993.07

EFFLUENT FLOW (MLD):2.52

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
6.00	0	1	()	()	39.00

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1

Release Activity: MG 1 Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

1	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

365	365	N/A	N/A
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Per Site Release:

1	N/A	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3

RELEASE ACTIVITY: MG () Max LADD

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING WATER NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: ()

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	■	■	■	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	469.68	176.11	112.57	92.39	NA
CONCENTRATION (µg/L)	N/A	N/A	N/A	N/A	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	1.63E-06 mg/kg/day		1.86E-06 mg/kg/day	
LADC _{pot}	8.37E-05 mg/L		2.23E-02 mg/kg	
Acute				
ADR _{pot}	N/A mg/kg/day		N/A	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: ■

Release Activity: MFG (■) Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

■	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

■	■	N/A	N/A
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Per Site Release:

■	N/A/■	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4

RELEASE ACTIVITY: MFG () Max ADR

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING WATER NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: ()

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	()	()	()	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	260.80	134.48	85.15	70.02	NA
CONCENTRATION (µg/L)	0.40	0.77	1.22	1.48	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	2.94E-06 mg/kg/day		3.35E-06 mg/kg/day	
LADC _{pot}	1.51E-04 mg/L		4.01E-02 mg/kg	
Acute				
ADR _{pot}	6.44E-05 mg/kg/day		1.90E-04	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: ■

Release Activity: MFG (■■■■■) PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

■■■■■	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

■■■■■	■■■■■	N/A	N/A
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Per Site Release:

■■■■■	N/A/■■■■■	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5

RELEASE ACTIVITY: MFG () PDM1

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING WATER NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: ()

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	()	()	()	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	260.80	134.48	85.15	70.02	NA
CONCENTRATION ($\mu\text{g/L}$)	0.40	0.77	1.22	1.48	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	2.94E-06 mg/kg/day		3.35E-06 mg/kg/day	
LADC _{pot}	1.51E-04 mg/L		4.01E-02 mg/kg	
Acute				
ADR _{pot}	6.44E-05 mg/kg/day		1.90E-04	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 5

RELEASE ACTIVITY: MFG () PDM1

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING STREAM NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: ()

GAGING STATION ID: N/A

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON
REACH: N/A

PERIOD OF RECORD: N/A

NUMBER OF
OBSERVATIONS: N/A

MEAN FLOW (MLD): 517.18

7q10 FLOW (MLD): 85.15

EFFLUENT FLOW (MLD):18.43

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
6.00	0	1	()	()	39.00

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1

Release Activity: MFG () Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

()	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

()	()	N/A	N/A
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Per Site Release:

()	N/A ()	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6

RELEASE ACTIVITY: MFG () Max LADD

FACILITY NAME: ()

FACILITY LOCATION: ()

RECEIVING WATER NAME: ()

REACH NUMBER: ()

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: ()

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	■	■	■	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	260.80	134.48	85.15	70.02	NA
CONCENTRATION (µg/L)	N/A	N/A	N/A	N/A	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	2.94E-06 mg/kg/day		3.35E-06 mg/kg/day	
LADC _{pot}	1.51E-04 mg/L		4.01E-02 mg/kg	
Acute				
ADR _{pot}	N/A mg/kg/day		N/A	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1

Release Activity: USE: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

		N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

			N/A	N/A
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Per Site Release:

		N/A	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7

RELEASE ACTIVITY: USE: Max ADR

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	[REDACTED]	[REDACTED]	[REDACTED]	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	8.26E-02	0.23	0.27	0.35	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	4.85E-07 mg/kg/day		5.53E-07 mg/kg/day	
LADC _{pot}	2.49E-05 mg/L		6.62E-03 mg/kg	
Acute				
ADR _{pot}	1.88E-05 mg/kg/day		3.95E-05	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: ■

Release Activity: USE: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

■	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

■	■	N/A	N/A
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Per Site Release:

■	N/A/■	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:8

RELEASE ACTIVITY: USE: PDM1

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	[REDACTED]	[REDACTED]	[REDACTED]	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	8.26E-02	0.23	0.27	0.35	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	4.85E-07 mg/kg/day		5.53E-07 mg/kg/day	
LADC _{pot}	2.49E-05 mg/L		6.62E-03 mg/kg	
Acute				
ADR _{pot}	1.88E-05 mg/kg/day		3.95E-05	mg/kg/day

Surface Water Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8

RELEASE ACTIVITY: USE: PDM1

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING STREAM NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: [REDACTED]

GAGING STATION ID: N/A

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON

PERIOD OF RECORD: N/A

NUMBER OF

REACH: N/A

OBSERVATIONS: N/A

MEAN FLOW (MLD): 1.14E+06

7q10 FLOW (MLD): 2.47E+05

EFFLUENT FLOW (MLD):38.43

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
6.00	0	1	[REDACTED]	[REDACTED]	39.00

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

Assessor: Kwon/SD

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1

Release Activity: USE: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

1	N/A	N/A	N/A
(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

365	365	N/A	N/A
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Per Site Release:

1	N/A	N/A	N/A
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-13-0930

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9

RELEASE ACTIVITY: USE: Max LADD

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
39.	■	■	■	0.00	266.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	N/A	N/A	N/A	N/A	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD _{pot}	4.86E-07 mg/kg/day		5.54E-07 mg/kg/day	
LADC _{pot}	2.49E-05 mg/L		6.63E-03 mg/kg	
Acute				
ADR _{pot}	N/A mg/kg/day		N/A	mg/kg/day

Surface Water Comments: